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PHOTOGRAPHIC INTERPRETATION REPORT

COMPARISON OF TALLINN AMM/SAM LAUNCH COMPLEX WITH ELEMENTS OF SSATC, USSR



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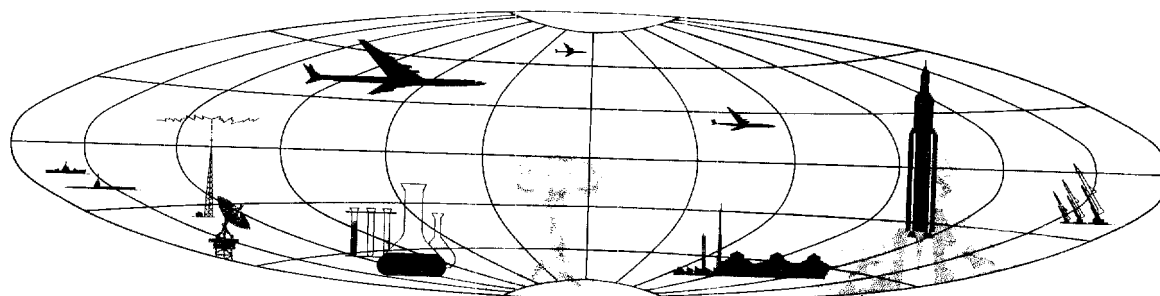
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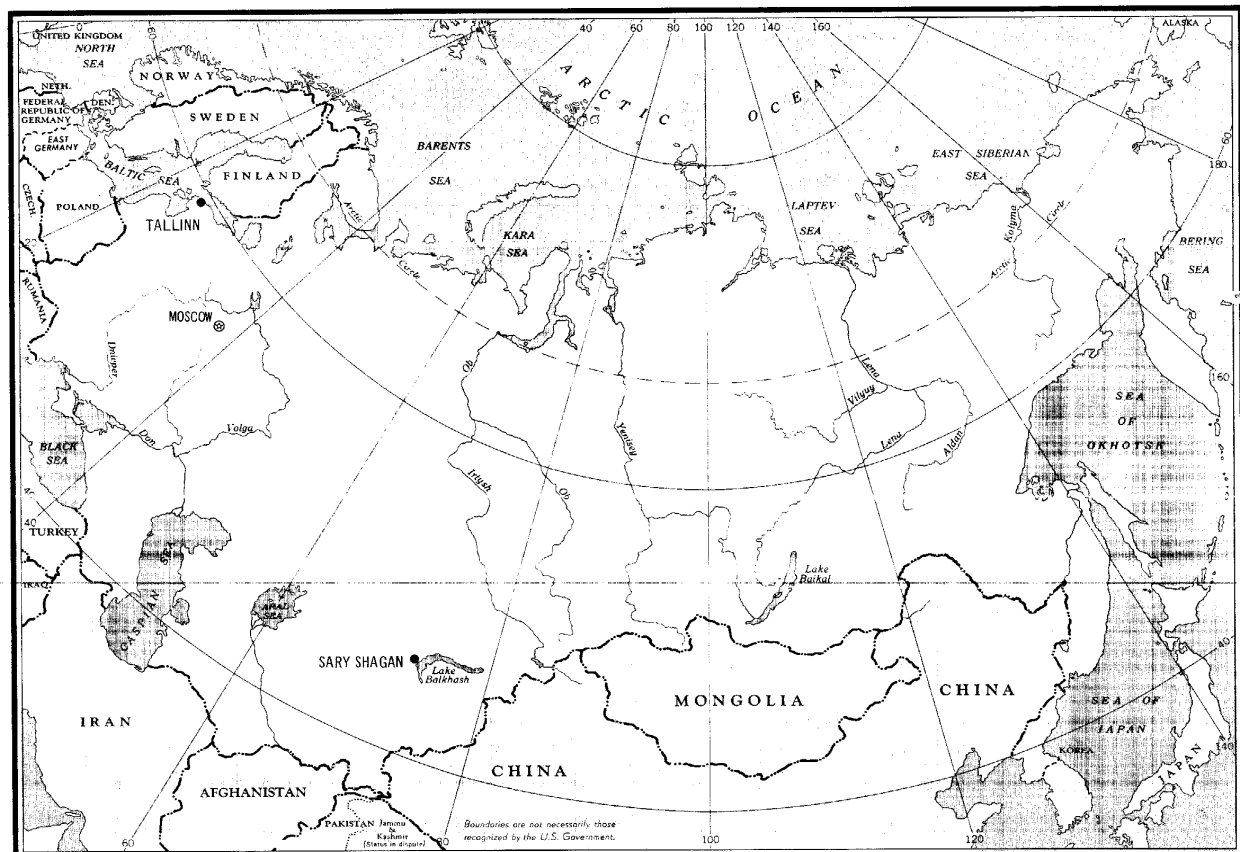
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FIGURE 1. LOCATIONS OF AMM/SAM LAUNCH COMPLEX, TALLINN, AND SARY-SHAGAN ANTIMISSILE TEST CENTER.

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This report was prepared in response to a CIA requirement for a comparison of components at the Tallinn AMM/SAM Launch Complex 1/ to certain modifications that have developed at Launch Site 3 and Electronic Site B, Launch Complex A, at the Sary-Shagan Antimissile Test Center (SSATC).

The Tallinn Complex is located at 59-24-25N 24-19-30E (Figure 1), 13 nautical miles (nm) west-southwest of Tallinn. It was revealed in early-to-mid stages of construction on KEYHOLE photography of [REDACTED] and was subsequently observed on larger scale KEYHOLE photography of [REDACTED] (Figure 2) when construction had continued. There was no evidence of this complex when the area was observed on good-quality photography of [REDACTED]

Launch Sites 3 and 4 and Electronic Site B, SSATC, (Figure 1) have not been observed on large-scale clear photography, but have been covered by repetitive missions of good-quality photography of smaller scale. Photography of [REDACTED] (Figure 3) provides the most recent coverage of this area.

Facilities at the Tallinn Complex (Figure 4) include five launch sites, each with six revetted launch positions in varying stages of construction; hardstands extending from the launch area access road; and an Unidentified Facility consisting of five slightly elevated hardstands with a revetted position centrally located among them.

Changes and additions to SSATC facilities under consideration in this report as observed on KEYHOLE photography are shown by a color-coded line drawing (Figure 5).

The launch positions under construction at the Tallinn Complex strongly resemble, in configuration and dimensions, modified Launch Position 5, Site 3, at Launch Complex A, SSATC (Figures 2 and 3). This latter, rectangular, revetted position, constructed since [REDACTED]

was first observed on KEYHOLE photography of [REDACTED] with snow conditions prevailing. At that time the position was revetted along its outer side and on each end, with a possible revetment extending along a portion of the inner side. Other features not present at the SSATC area of interest in [REDACTED] but observed on photography of [REDACTED] or subsequent dates include development of the pad area at Launch Position 5, Site 3; development of a similar pad area, unrevetted, just west of previously existing Launch Position 6; new loop roads serving the two positions from the launch site service roads; newly constructed revetments along a new east-northeast/west-southwest road running parallel and south of the main road serving Electronic Site B, and extension of security fencing to enclose this area; a revetted structure located southwest of Launch Site 4; and construction of a tower-like structure and an associated structure just north of Site 3.

Subsequent to [REDACTED] the subject area at SSATC was snow covered when next observed on photography of [REDACTED]

A white-toned circular area, approximately 60 feet in diameter, with a dark-toned image at its center was observed at the western end of revetted Launch Position 5 on photography of [REDACTED]. The remainder of the rectangular pad surface appeared rough and dark in tone at that time. An irregular pattern with some height was visible approximately midway along the outer revetment wall probably indicating construction was incomplete.

When observed on photography of [REDACTED] the pad surface was white in tone and a dark-toned image was visible at each end of the revetted position. Photography of [REDACTED] revealed two objects, probably vehicles/equipment, at the eastern end of the revetment. The approximate distance from these objects to the dark-toned feature at the opposite end of the

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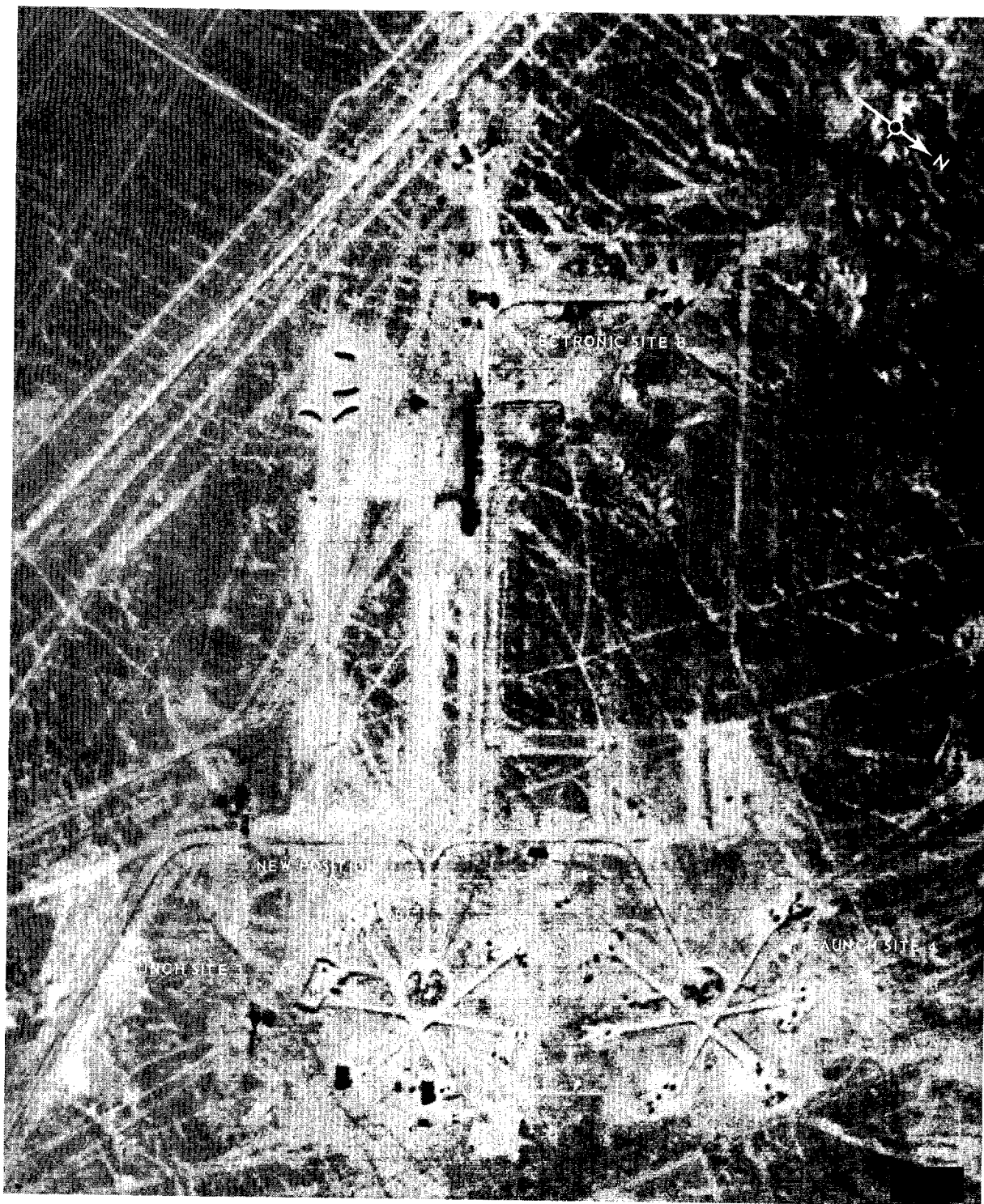


FIGURE 3. LAUNCH SITES 3 AND 4 AND ELECTRONIC SITE B, SSATC.

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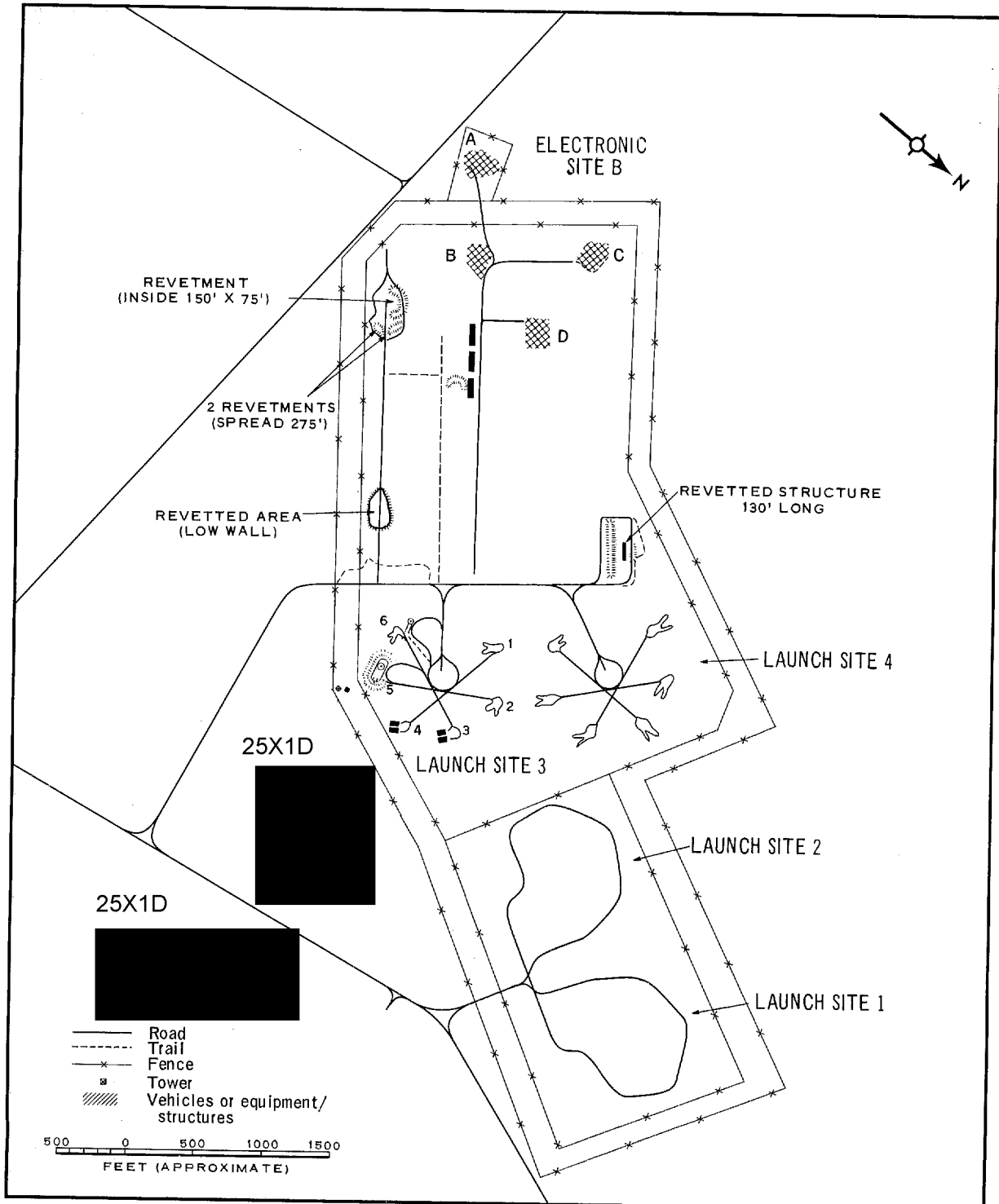


FIGURE 5. CHRONOLOGY OF MODIFICATIONS TO LAUNCH SITE 3 AND VICINITY.

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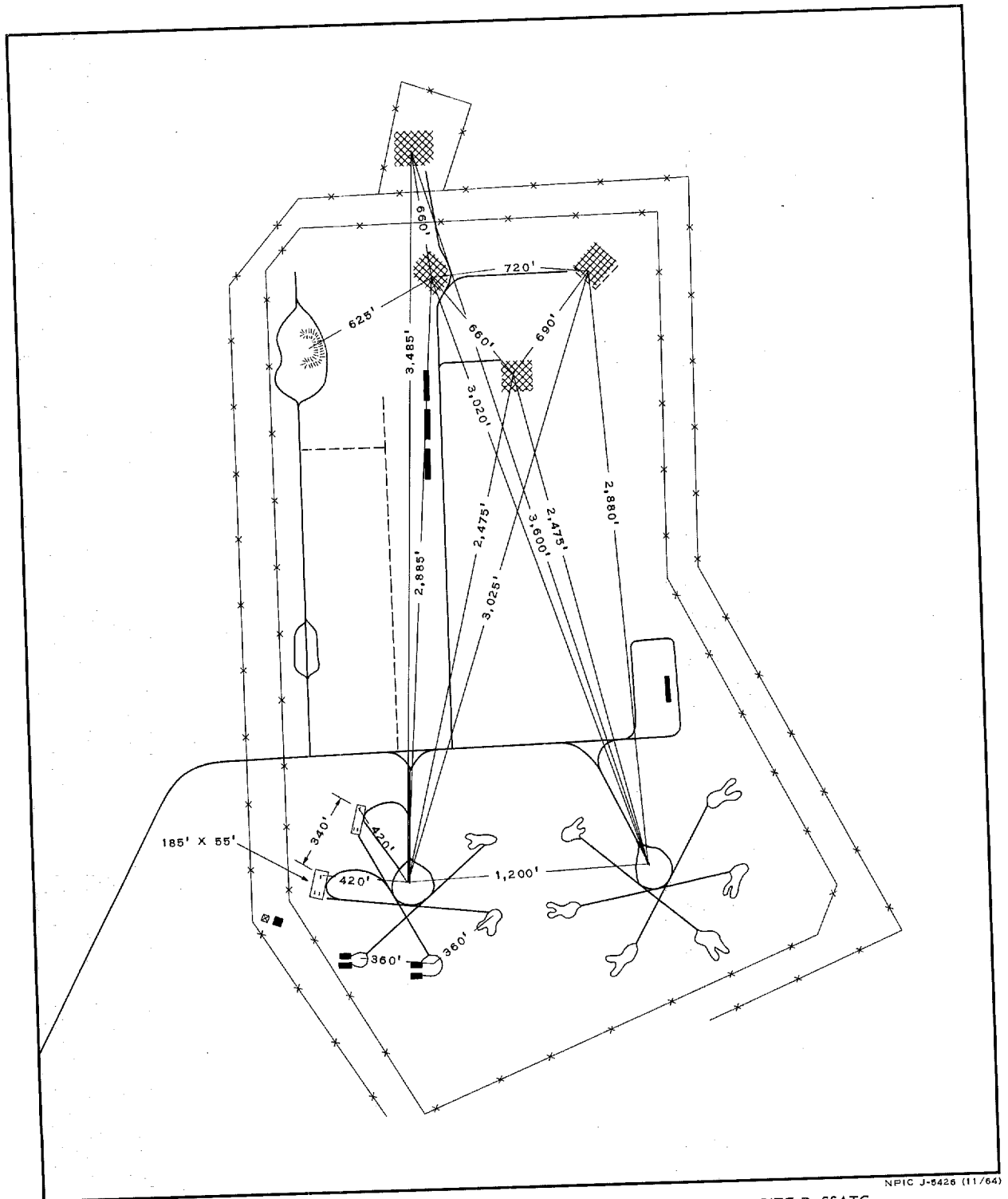


FIGURE 7. SCHEMATIC DIAGRAM, LAUNCH SITES 3 AND 4 AND ELECTRONIC SITE B, SSATC.

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revetted position is 115 feet.

Development of the new unrevetted position near previously existing Launch Position 6 has occurred virtually concurrently with that of Position 5. Its loop service road was first observed on KEYHOLE photography of [REDACTED]. As in the case of the revetted position, a white-toned circular area with a centrally located dark image was observed at the western end of the unrevetted position on photography of [REDACTED]. Scarring, dark in tone, extended approximately 115 feet to the east terminating at the location of two objects, probably vehicles/equipment. The surface of the pad area at the unrevetted position was white in tone when observed on photography [REDACTED].

At one end of the launch positions at the Tallinn AMM/SAM Launch Complex an excavation approximately 15 feet in diameter was observed when the complex was covered by large-scale KEYHOLE photography of [REDACTED]. The dark-toned image at one end of the SSATC launch positions may equate to the excavations at Tallinn; however, this cannot be confirmed on current photography.

Distances separating Launch Positions 5 and 6 at Site 3, SSATC, and distances from the

launch site center to the launch positions equate favorably to measurements of comparable locations at the Tallinn Complex.

Functional association between the launch sites and the Unidentified Facility at the Tallinn Complex is undetermined. Positions within the Unidentified Facility are symmetrically arranged and lines connecting them form a pentagon measuring approximately 770 feet on a side. Lines connecting these positions and the centers of the five launch sites form a geometric arrangement as portrayed in the accompanying schematic drawing (Figure 6).

Distances between certain positions at Electronic Site B, Launch Complex A, SSATC, and distances between these positions and Launch Sites 3 and 4 were measured for comparative purposes (Figure 7). These positions were selected at locations where there are concentrations of vehicles/equipment within Electronic Site B, and measurements were made from the apparent centers of activity at these locations to the centers of Launch Sites 3 and 4. Certain of these distances closely approximate the distances between the Unidentified Facility and the launch sites at the Tallinn Complex.

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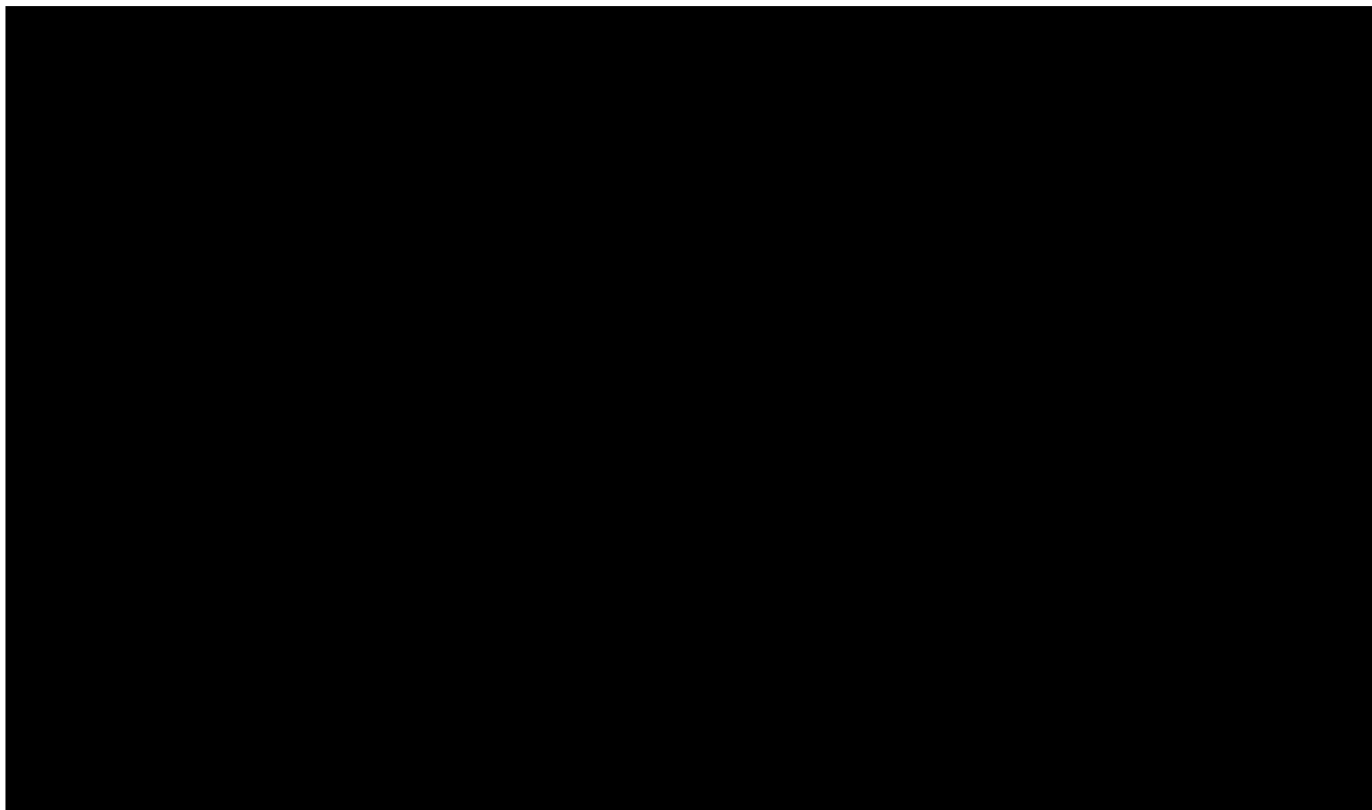
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REFERENCES

PHOTOGRAPHY

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MAPS OR CHARTS

- ACIC. US Air Target Chart, Series 200, Sheet 0153-2HL, 3d ed, Aug 63, scale 1:200,000 (SECRET)
- ACIC. US Air Target Chart, Series 200, Sheet 0245-9AL, 2d ed, May 61, scale 1:200,000 (SECRET)
- ACIC. US Air Target Chart, Series 200, Sheet 0245-14AL, 3d ed, May 61, scale 1:200,000 (SECRET)

DOCUMENT

- 1. NPIC. R-852/64, *Tallinn AMM/SAM Launch Complex and Cherepovets Suspect AMM/SAM Launch Complex, USSR*, Sep 64 (TOP SECRET CHESS RUFF)

REQUIREMENT

CIA. OSI/C-SI4-81,882

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